

ABB BALDOR RELIANCE III

Customer information packet

CFSWDM3559-E

3HP, 3470RPM, 3PH, 60HZ, 56C, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UR WEEE CE NEMA PREMIUM CSA EEV CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.600 A @ 460.0 V 7.200 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGR930
Layout	35LYE4741
Eff. date	11-27-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	12-13-2019

Heater Indicator	No Heater
High Voltage Full Load Amps	3.6 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	P
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3546M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.21 IN
Power Factor	90
Product Family	WD All SS Encapsulated
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3470 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4427ABB01														
CAT #	CFSWDM3559-E					WGT	28		KG					
SPEC	35-0000-0507					ENCL	TEFC							
SER #						CC	010A		IP	69				
KW	3HP			MAG CUR		2.5/1.25					IE	3		
VOLTS	230/460													
AMPS	7.2/3.6							PF	90					
RATING	40C AMB-CONT							IC	411					
RPM	3470					(1/MIN)			MAX (1/MIN)			5400		
FRAME	56C		HZ	60		CODE	P		CLASS	H				
SER.F.	1.15	SF AMP	8.3/4.1				PH	3	DES	A				
EFF 60HZ	86.5		%(100%)		87.2		%(75%)		86.3		%(50%)			
EFF 50HZ	N/A		%(100%)		N/A		%(75%)		N/A		%(50%)			
DE	6205			ODE	6205									
LUBRICATION	POLYREX EM													
ID LOGO	INVERTER TYPE				VPWM		CHP	60		TO	90		1.5:1	
ID LOGO	WK2	0.127		CT	15		TO	60		4:1				
ID LOGO	SL HZ	2.2		VT	6		TO	60		10:1				

AC Induction Motor Performance Data

Record # 55293

Typical performance - not guaranteed values

Winding: 35WGR930-R011			Type: 3546M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		3	Full Load Torque		4.5 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		7.2/3.6	Breakdown Torque		17.2 LB-FT		
R.P.M.		3470	Pull-up Torque		10.5 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		17 LB-FT	
NEMA Design Code		A	KVA Code		P	Starting Current	48.3 A
Service Factor (S.F.)		1.15	No-load Current		1.25 A		
NEMA Nom. Eff.		86.5	Power Factor		90	Line-line Res. @ 25°C	3.47 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		63°C
S.F. Amps					Temp. Rise @ S.F. Load		74°C
					Locked-rotor Power Factor		42.3
					Rotor inertia		0.127 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	59	79	87	90	91	90	91
Efficiency	80.1	86.4	87.3	86.9	85.7	83.9	86.2
Speed	3567	3541	3510	3479	3443	3403	3457
Line amperes	1.53	2.07	2.78	3.55	4.42	5.4	4.07

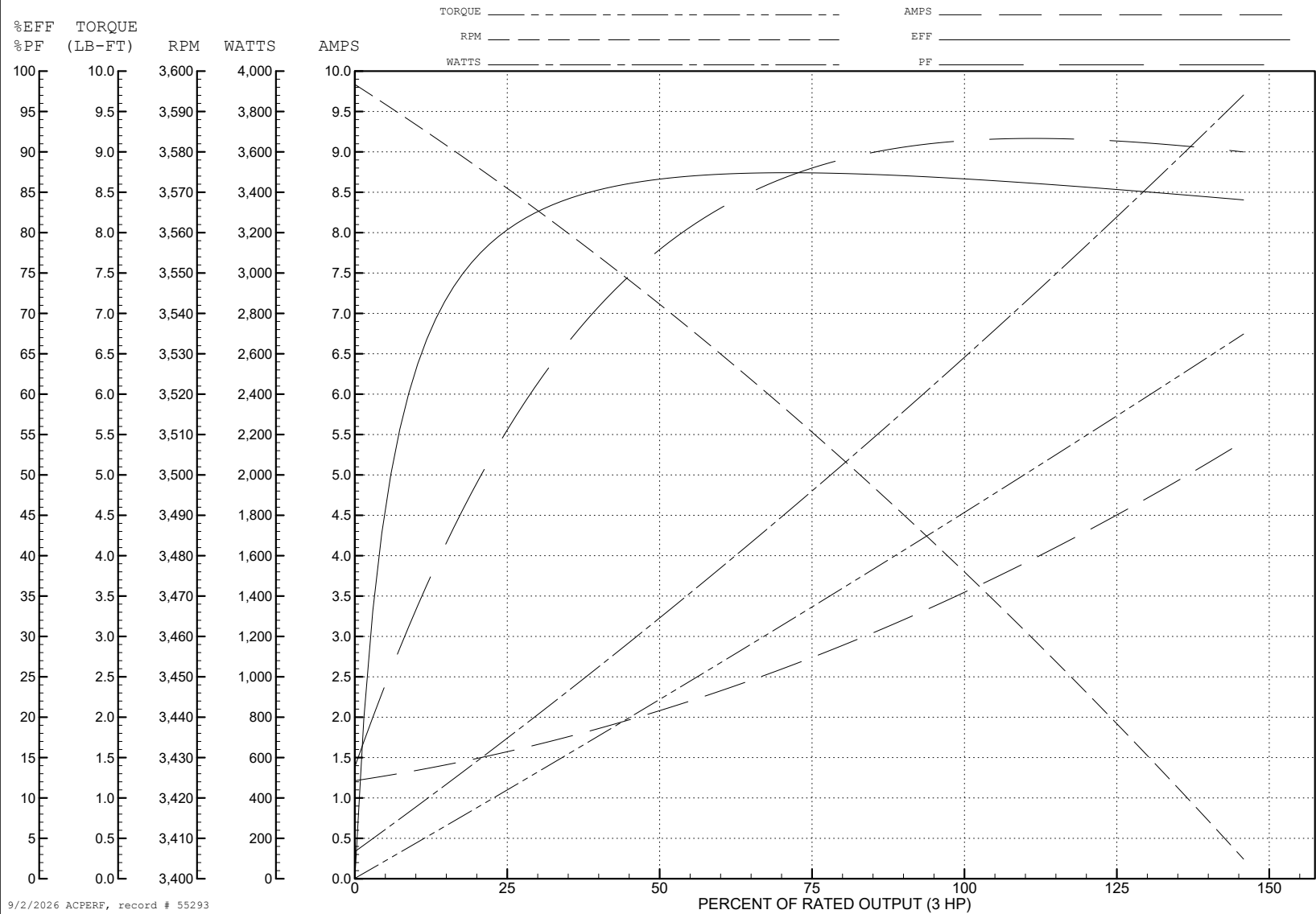
ABB Motors and Mechanical Inc.

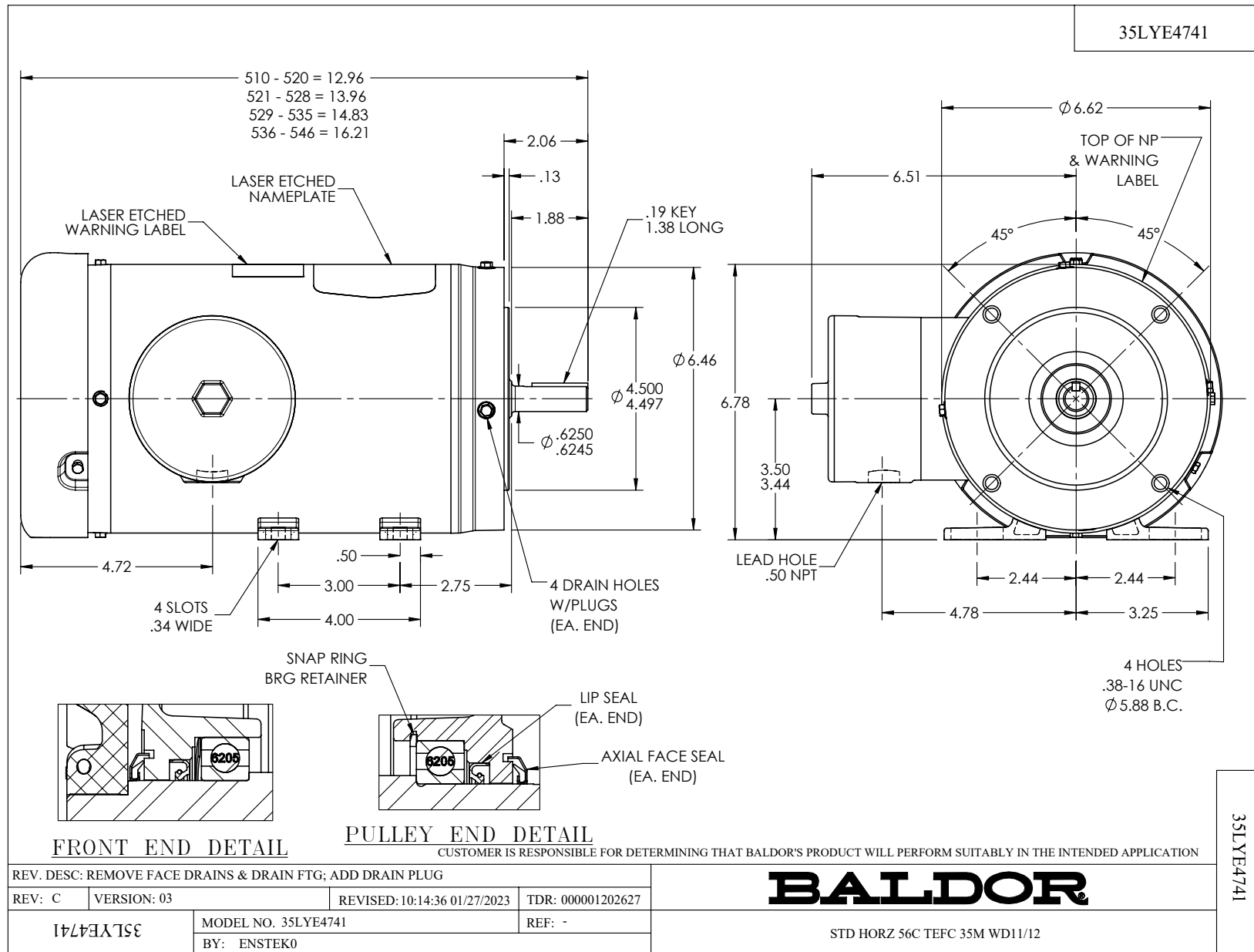
WINDING # 35WGR930

Typical performance - not guaranteed values.

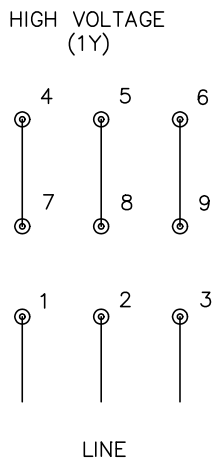
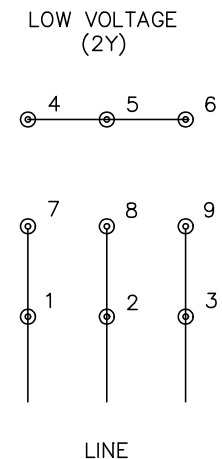
3 HP 3 PH 60 HZ 3470 RPM 460 V 3546M

TORQUES (LB-FT): PO=17.2 PU=10.5 LR=17 LRA=48.3





CD0005



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 - 2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 - 3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
 - 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005